

**DECLARATION FOR PATENT APPLICATION**

As one of the below named inventors, I hereby declare that:

My residence, post office address and citizenship is as stated below next to my name.

I believe I am one of the original and joint inventors of the subject matter which is claimed and for which a patent is sought on the invention entitled

**ECHO CANCELLER EMPLOYING DUAL-H ARCHITECTURE  
HAVING SPLIT ADAPTIVE GAIN SETTINGS**

the specification of which was filed in the United States Patent and Trademark Office as application Serial No. 08/970,229, on November 14, 1997.

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, § 1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, § 119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed. **NONE**

I hereby claim the benefit under Title 35, United States Code, § 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, § 112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, § 1.56 which occurred between the filing date of the prior application and the national or PCT international filing date of this application.

I hereby appoint the following attorneys and/or agents to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith:

Kenneth J. Rudofski	Reg. No. 35,997
Georg P. McAndrews	Reg. No. 22,760
John J. Held	Reg. No. 21,061
Timothy J. Malloy	Reg. No. 25,600
William M. Wesley	Reg. No. 26,521
Lawrence M. Jarvis	Reg. No. 27,341

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Thomas J. Wimbiscus	Reg. No. 36,059
Steven J. Hampton	Reg. No. 33,707
Priscilla F. Gallagher	Reg. No. 32,223
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Richard T. McCaulley, Jr.	Reg. No. P-41,977
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Karen L. Hunnicutt	Reg. No. P-42-677
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Address all correspondence to:

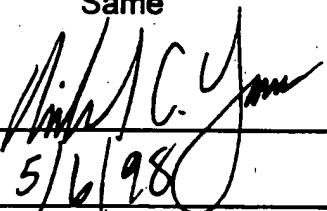
Lawrence M. Jarvis  
McAndrews, Held & Malloy, Ltd.  
500 W. Madison, Suite 3400  
Chicago, IL 60661

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Information about first inventor:

(given name, family name): **Richard C. Younce**  
Residence: 64878 County Rd. 3  
Wakarush, IN 46573

Citizenship: USA  
Post Office Address: Same

First inventor's signature: 

Date Signed: 5/6/98

Information about second inventor:

(given name, family name): **Kenneth P. Laberteaux**  
Residence: 609 E. Oakside St.  
South Bend, IN 46614

Citizenship: USA  
Post Office Address: Same

Second inventor's signature: Kenneth P. Laberteaux

Date Signed: May 20, 1998



120020501 LMJ  
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UNITED STATES DEPARTMENT OF COMMERCE  
Patent and Trademark Office  
ASSISTANT SECRETARY AND COMMISSIONER  
OF PATENTS AND TRADEMARKS  
Washington, D.C. 20231

AUGUST 28, 1998

PTAS

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SEP 14 1998

UNITED STATES PATENT AND TRADEMARK OFFICE  
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PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 06/04/1998

REEL/FRAME: 9255/0078

NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

YOUNCE, RICHARD C.

DOC DATE: 05/06/1998

ASSIGNOR:

LABERTEAUX, KENNETH P.

DOC DATE: 05/20/1998

ASSIGNEE:

TELLABS OPERATIONS, INC.  
4951 INDIANA AVE.  
LISLE, ILLINOIS 60532

SERIAL NUMBER: 08970229

FILING DATE: 11/14/1997

PATENT NUMBER:

ISSUE DATE:

JEEVON JONES, EXAMINER  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS

06-24-1998



100746011

To the Honorable Commissioner or  
thereof.

## 1. Name(s) of conveying party(ies):

Richard C. Younce  
Kenneth P. Laberteaux

Additional name(s) of conveying party(ies) attached?  Yes  No

## 3. Nature of conveyance:

Assignment  Merger

Security Agreement  Change of Name

Other: \_\_\_\_\_

Execution Date: May 6, 1998 and May 20, 1998

## 4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: \_\_\_\_\_

## A. Patent Application No.(s)

08/970,229

## B. Patent No.(s)

Additional numbers attached?  Yes  No5. Name and address of party to whom correspondence  
concerning document should be mailed:

Lawrence M. Jarvis  
McAndrews, Held & Malloy  
500 West Madison Street  
34th Floor  
Chicago, Illinois 60661

6. Total number of applications and patents  
involved: 17. Total fee (37 CFR 3.41): \$ 40.00 E Enclosed Authorized to be charged to deposit account

## 8. Deposit account number: 13-0017

(Attach duplicate copy of this page if paying by deposit account)

6/23/1998 TTOM11 00000176 00970229

40.00 0P

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## 9. Statement and signature.

*To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.*

Signature and Registration Number: 27,341

27,341

Date: June 1, 1998

Name of Person Signing: Lawrence M. Jarvis

Total number of pages including cover sheet, attachments and document: 3

## ASSIGNMENT

Attorney Case No. 12002US01

Inventor: **Richard C. Younce**

**Kenneth P. Laberteaux**

Serial No.: 08/970,229

Filing Date: 11.14.97

In consideration of One Dollar (\$1.00) and other good and valuable considerations in hand paid, the receipt and sufficiency of which is hereby acknowledged, the undersigned hereby assigns to **Tellabs Operations, Inc.**, a corporation of Delaware, its successors and assigns, the entire right, title and interest in the invention or improvements of the undersigned disclosed in an application for Letters Patent of the United States, entitled "**Echo Canceller Employing Dual-H Architecture Having Split Adaptive Gain Settings**," and identified as U.S.S.N. 08/970,229, filed November 14, 1997, in the United States Patent and Trademark Office, and in any and all other applications, both United States and foreign, which the undersigned may file, either solely or jointly with others, on said invention or improvements, and in any and all Letters Patent of the United States and foreign countries, which may be obtained on any of said applications, and in any reissue or extension of such patents, and further assigns to said assignee the priority right provided by the International Convention.

The undersigned hereby authorizes and requests the Commissioner of Patents and Trademarks to issue any said Letters Patent to said assignee.

The undersigned warrants himself to be the owner of the entire right, title, and interest in said invention or improvements and to have the right to make this assignment, and further warrants that there are no outstanding prior assignments, licenses, or other encumbrances on the interest herein assigned.

For said considerations, the undersigned hereby agrees, upon the request and at the expense of said assignee, its successors and assigns, to execute any and all divisional, continuation, continuation in part, and substitute applications for said invention or improvements, and any necessary oath, affidavit or declaration relating thereto, and any application for the reissue or extension of any Letters Patent that may be granted upon said application, and any and all applications and other document for Letters Patent in foreign countries on said invention or improvements, that said assignee, its successors or assigns may deem necessary or expedient, and for the said considerations the undersigned authorizes said assignee to apply for patents for said invention or improvements in its own name in such countries where such procedure is proper and further agrees, upon the request of said assignee, its successors and assigns, to cooperate to the best of the ability of the undersigned with said assignee, its successors and assigns, in any proceedings or transactions involving such applications or patents, including the preparation and execution of preliminary statements, giving and producing evidence, and performing any and all other acts necessary to obtain said Letters Patent,

both United States and foreign, and vest all rights therein hereby conveyed in the assignee, its successors and assigns, whereby said Letters Patent will be held and enjoyed by the said assignee, its successors and assigns, to the full end of the term for which said Letters Patent will be granted, as fully and entirely as the same would have been held and enjoyed by the undersigned if this assignment had not been made.

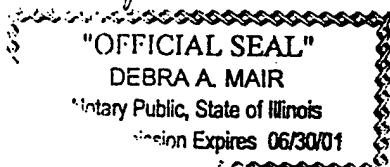
**WITNESS** my hand and seal this 6 day of May, 19 98.

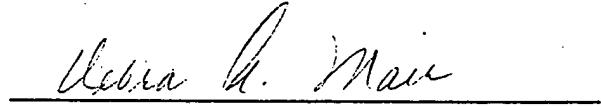
  
Richard C. Younce

State of Illinois

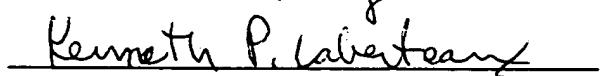
County of Will

The foregoing instrument was acknowledged before me this 6th day of  
May, 19 98 by DEBRA A. MAIR.



  
Debra A. Mair  
Notary Public

**WITNESS** my hand and seal this 20 day of May, 19 98.

  
Kenneth P. Laberteaux  
Kenneth P. Laberteaux

State of Indiana

County of St. Joseph

The foregoing instrument was acknowledged before me this 20th day of

May, 19 98 by Sherrie L. Miller.

  
Sherrie L. Miller  
Notary Public